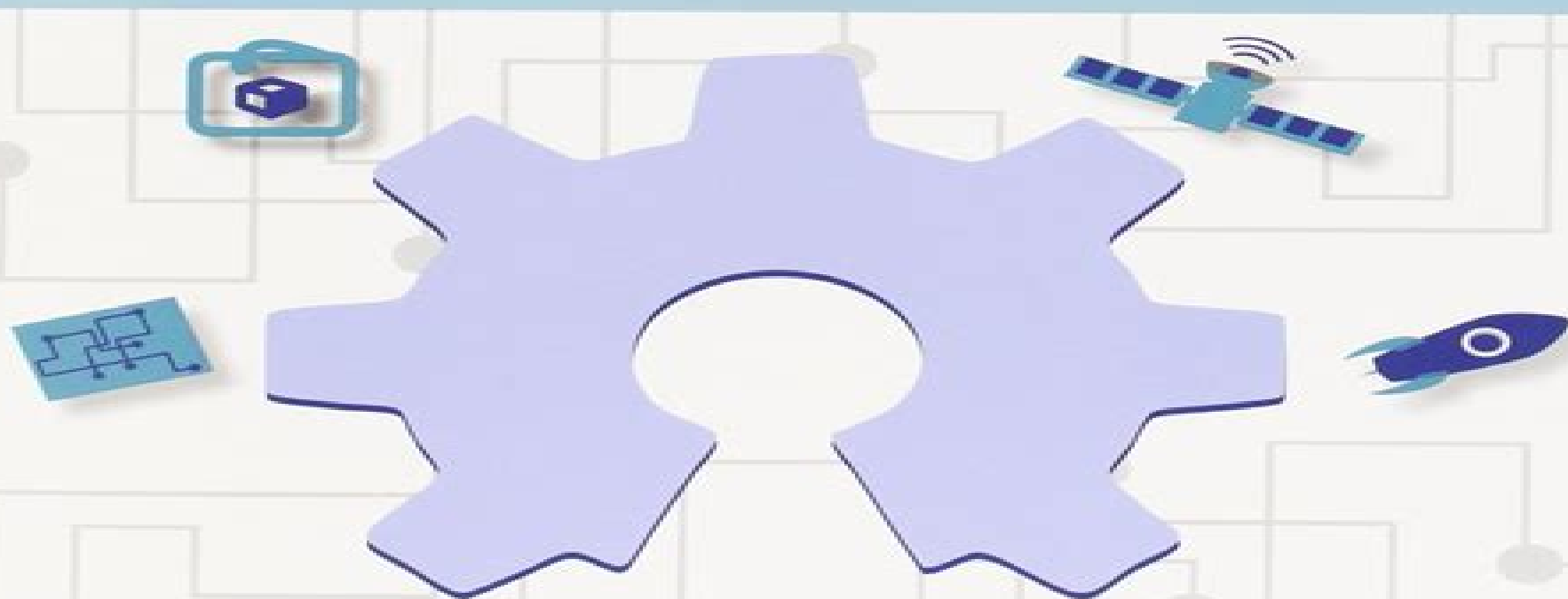


BUILDING OPEN SOURCE HARDWARE

DIY Manufacturing for Hackers and Makers



ALICIA GIBB

Building Open Source Hardware Diy Manufacturing For Hackers And Makers

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Building Open Source Hardware Alicia Gibb, 2015 This is the first hands on guide to the entire process of designing and manufacturing open source hardware Drawing on extensive personal experience with DIY maker and hardware hacking projects industry leading contributors share proven approaches to design remixing fabrication manufacturing troubleshooting licensing documentation and running an open source hardware business Part I covers the emergence and evolution of open source hardware what open source hardware licenses mean and the growing role of standards in making hardware more open Part II offers contributors expert advice on key tasks ranging from creating derivatives to using source files Part III turns to production showing how to manufacture at multiple scales from personal to commercial Appendixes provide valuable checklists for design manufacture security and documentation And to foster even more hands on learning and experimentation the low cost Blinky Buildings open source hardware kit is used as an example throughout Learn how to Get involved in the open source hardware community its history and values Develop designs you can successfully prototype and manufacture Walk step by step through making derivatives from existing projects Build open source 3D printers and remix 3D printable objects Create open source wearables Work with diverse source files from electronics to other physical materials Fabricate your own designs Move from prototype to commercial manufacturing and troubleshoot problems Choose a business model and build a profitable open source hardware company Avoid pitfalls associated with trademarks copyrights patents and licensing Write documentation other hardware hackers can use Use open source hardware in education helping students learn without boundaries

Hyper-Exploitation in the Hacker Movement Yilmaz Aliskan, 2023-09-05 In this book Yilmaz Aliskan discusses the capitalist exploitation of digital media and examines how free time and creativity can be exploited in open source communities with corporations often benefiting from community generated knowledge Focusing on open source hardware communities in which hackers give up a considerable amount of free time and creativity to create open technology Aliskan investigates how free time becomes a hyper exploited commodity from which capital is increasingly accumulated Whereas paid workers are still often exploited Aliskan posits that open source workers are further hyper exploited by technology companies as they receive no compensation for their labour Ultimately this book reveals how the time and activity of volunteers in open source communities are ripe for capitalist exploitation that blurs the line between leisure and work time often disguised by assertions that such labour is fun or in line with volunteers personal interests or values Scholars of communication digital media sociology and labour studies will find this book of particular interest

Additive Manufacturing Technologies and Applications Salvatore Brischetto, Paolo Maggiore, Carlo Giovanni Ferro, 2018-07-09 This book is a printed edition of the Special Issue Additive Manufacturing Technologies and Applications that was published in *Technologies* *Proceedings of the International Conference on Information Technology & Systems (ICITS 2018)* Álvaro Rocha, Teresa Guarda, 2018-01-04 This book includes a selection of articles from the 2018 International

Conference on Information Technology organizational models and information systems software and systems modeling software systems architectures applications and tools multimedia systems and applications computer networks mobility and pervasive systems intelligent and decision support systems big data analytics and applications human computer interaction ethics computers health informatics and information technologies in education

Creating a Teacher Collective Maria Impedovo, Karen Ferreira-Meyers, Noriyuki Inoue, 2023-06-05 The present book addresses the following challenge How do we create and sustain a teacher community For practitioners the main question in this handbook is How do we build and facilitate teacher communities The different chapters discuss teacher interaction for learning and professional development in light of three constructs the group the community and the network There is a wealth of literature especially on theoretical frameworks success factors and barriers to participation in teacher communities However this book addresses the need for a step by step guide with valuable suggestions for those who want to create from scratch and support a community of teachers brought together to deal with specific issues and importantly mediated by educational technology

Co-Creation Tobias Redlich, Manuel Moritz, Jens P. Wulfsberg, 2018-11-19 Across several industries we are observing a paradigm shift from traditional firm centric and top down value creation to more open and collaborative approaches also referred to as bottom up economics The boundaries of firms dissolve and external actors customers user suppliers etc enter the domain of value creation by means of advanced information and communication technologies These new and evolving patterns require a renewed and interdisciplinary understanding of how co creation enables organizations to reshape business and society With contributions from industrial and academic experts this book provides deep insights into the theory and practice of bottom up economics and addresses the major opportunities and challenges that have emerged in the era of co creation A must read for decision makers looking to innovate their companies business models from ideation to marketing

Dr Ing Michaela Colla K GXI Leader Industry 4 0 at Volkswagen Simply put co creation is the future of work With technology morphing the way we work and young people wanting to tackle problems that matter co creation is the sandbox where the world can come together to solve big challenges Plus co creation rapidly delivers products with built in market fit

Megan Brewster Vice President of Advanced Manufacturing at Launch Forth Successful leaders will co create the future This book is an excellent starting point

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3D Printing and Intellectual Property Lucas S. Osborn, 2019-09-05 Focuses on the novel issues raised for IP law by 3D printing for the major IP systems around the world

Structural Studies, Repairs and Maintenance of Heritage Architecture XVII & Earthquake Resistant Engineering Structures XIII S. Hernández, G. Marseglia, 2021-07-26 Structural Studies Repairs and Maintenance of Heritage Architecture XVII The importance of retaining the built cultural heritage cannot be overstated Rapid development and inappropriate conservation techniques are threatening many heritage unique sites in different parts of the world Selected papers presented at the 17th International Conference on Studies Repairs and Maintenance of Heritage

Architecture are included in this volume They address a series of topics related to the historical aspects and the reuse of heritage buildings as well as technical issues on the structural integrity of different types of buildings such as those constructed with materials as varied as iron and steel concrete masonry wood or earth Restoration processes require the appropriate characterisation of those materials the modes of construction and the structural behaviour of the building This knowledge can be gained through a series of material characterisation techniques preferably via non destructive tests Modern computer simulation can provide accurate results demonstrating the stress state of the building and possible failure mechanisms affecting its stability Of particular importance are studies related to their dynamic and earthquake behaviour aiming to provide an assessment of the seismic vulnerability of heritage buildings Contributions originate from scientists architects engineers and restoration experts from all over the world and deal with different aspects of heritage buildings including how to formulate regulatory policies to ensure effective ways of preserving the architectural heritage Earthquake Resistant Engineering Structures XIII Papers presented at the 13th International Conference on Earthquake Resistant Engineering Structures form this volume and cover basic and applied research in the various fields of earthquake engineering relevant to the design of structures Major earthquakes and associated effects such as tsunamis continue to stress the need to carry out more research on those topics The problems will intensify as population pressure results in buildings in regions of high seismic vulnerability A better understanding of these phenomena is required to design earthquake resistant structures and to carry out risk assessments and vulnerability studies The problem of protecting the built environment in earthquake prone regions involves not only the optimal design and construction of new facilities but also the upgrading and rehabilitation of existing structures including heritage buildings The type of highly specialized retrofitting employed to protect the built heritage is an important area of research The included papers cover such topics as Seismic hazard and tsunamis Building performance during earthquakes Structural vulnerability Seismic isolation and energy dissipation Passive earthquake protection systems

Entrepreneurship in Innovation Communities Jan-Peter Ferdinand, 2017-09-27 Drawing on empirical insights from the field of desktop 3D printing this book elaborates the concept of innovation communities as a pattern of open and distributed innovation As these communities spur a fruitful exchange of explorative open source knowledge they represent a novel mode of doing innovation which considerably differs from established practices in market and business realms Hence the people that participate in these collective endeavors often develop entrepreneurial ambitions and start to exploit community based innovations commercially The book presents deep insights on the institutional idiosyncrasies of innovation communities the associated dilemma of entrepreneurship and the strategies of 3D printing startups to face the corresponding challenges

Social Robots from a Human Perspective Jane Vincent, Sakari Taipale, Bartolomeo Sapio, Giuseppe Lugano, Leopoldina Fortunati, 2015-05-08 This book presents a comprehensive overview of the human dimension of social robots by discussing both transnational features and national

peculiarities Addressing several issues that explore the human side of social robots this book investigates what a social robot is and how we might come to think about social robots in the different areas of everyday life Organized around three sections that deal with Perceptions and Attitudes to Social Robots Human Interaction with Social Robots and Social Robots in Everyday Life it explores the idea that even if the challenges of robot technologies can be overcome from a technological perspective the question remains as to what kind of machine we want to have and use in our daily lives Lessons learned from previous widely adopted technologies such as smartphones indicate that robot technologies could potentially be absorbed into the everyday lives of humans in such a way that it is the human that determines the human machine interaction In a similar way to how today's information and communication technologies were initially designed for professional industrial use but were soon commercialized for the mass market and then personalized by humans in the course of daily practice the use of social robots is now facing the same revolution of domestication In the context of this transformation which involves the profound embedding of robots in everyday life the human aspect of social robots will play a major part This book sheds new light on this highly topical issue one of the central subjects that will be taught and studied at universities worldwide and that will be discussed widely publicly and repeatedly in the near future

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